Physics Curriculum – Carre's Grammar School

<table>
<tr><th colspan="8">Subject</th></tr>
<tr><th colspan="2"></th><th colspan="2">Autumn 1</th><th colspan="2">Autumn 2</th><th colspan="2">Spring 3</th><th colspan="2">Spring 4</th><th colspan="2">Summer 5</th><th>Summer 6</th></tr>
<tr><td rowspan="4">Year 12</td><td>Mr Whiting</td><td colspan="2">2 Foundations of physics</td><td colspan="2">3.4 Materials</td><td colspan="3">4.1 Charge and current
4.2 Energy, power and resistance
4.3 Electrical circuits</td><td colspan="2">5.3 - Oscillations</td></tr>
<tr><td>Mr Fisher</td><td colspan="3">3.1 Motion
3.2 Forces in action</td><td colspan="3">3.3 Work, energy and power
3.5 Newton's laws of motion</td><td colspan="2">5.2 Circular motion</td></tr>
<tr><td>Mrs Thomas</td><td colspan="4">4.4 Waves</td><td colspan="2">4.5 - Quantum</td><td>PAG12 - Research report</td><td>PAG11 - Investigative report</td></tr>
<tr><td></td><td colspan="3">Key Assessments
Early Sep – transition assessment
Early-Nov – Formal assessment using past paper questions and covering all work covered so far.
Mid-Dec – 3.1-3.2 assessment</td><td colspan="3">Assessment
Mid-Jan – 4.4 mid-topic
End-Feb – 4.4 assessment
Start-Mar – 3.3+3.5 assessment
Mid-Mar – 4.1-4.3 assessment
End-Mar – 3.4 assessment</td><td colspan="2">Assessment
End-Apr – Year 12 exam on Modules 1-4.
Mid-Jun – PAG12 hand-in
End-Jun –0 Year 12 exam on Modules 1-4.
End-Jul – PAG11 hand-in</td></tr>
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<tr><td rowspan="3">Year 13</td><td>Mr Whiting</td><td>5.1 – Thermal physics
5.5 – Astrophysics (Cosmology)</td><td>6.2 – Electric fields</td><td>6.3 – Electromagnetism</td><td>6.5 – Medical imaging</td><td colspan="2" rowspan="2">REVISION</td></tr>
<tr><td>Mr Fisher</td><td>5.4 – Gravitational fields
5.5 – Astrophysics (Stars)</td><td colspan="2">6.4 – Nuclear and Particle physics</td><td>6.1 – Capacitors</td></tr>
<tr><td></td><td colspan="2">Assessment
September – 5.2+5.3 assessment
October – 5.1 assessment and 5.4 assessment
November – Modelling Physics mock exam (Modules 1, 2, 3 and 5)
December – 5.5 assessment and 6.2 assessment</td><td colspan="2">Assessment
January – 6.3 assessment and 6.4 assessment
February – Exploring Physics mock exam (Topics 1, 2, 4 and 6).
March – 6.5 assessment and 6.1 assessment
April – Unified Physics mock exam (All topics)</td><td colspan="2">Assessment
Final exams May/June</td></tr>
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Subject						
	Autumn 1	**Autumn 2**	**Spring 3**	**Spring 4**	**Summer 5**	**Summer 6**
Year 11	**Topic 6 – Waves** • Describing and measuring properties of waves • Explaining the appearance of objects by considering interactions of light with their surfaces. • Describing the emission and absorption of infrared radiation. • Describing the production, detection, properties, uses and hazards of electromagnetic waves. • Investigating reflection and refraction. • Lenses, including drawing ray diagrams and describing the properties of the images formed. • Using sound, ultrasound and seismic waves for detection and exploration.		**Topic 8 – Space physics** • Describing the structure of the Universe. • Describing the orbital motion of planets and satellites. • Describing the formation, lifecycle and death of stars of different masses. • Explain what is meant by the Doppler Effect. • Explain the evidence for the Big Bang theory.	**REVISION**		
	Assessment • September – Assessment questions on parts of Topic 5 and 7 which were covered in lockdown. • End of November – Mock exam: Paper 1 (Topics 1-4)		**Assessment** • Beginning of January– End of topic assessment on Topic 6. • Mid-February – End of topic assessment on Topic 8.		**Assessment** • Ongoing mini-assessments as part of revision. • May/June – Final GCSE exams.	

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Subject			
		• Beginning of March – Mock exams on both Paper 1 (Topics 1-4) and Paper 2 (Topics 5-8)	